

List of Plants

BETULINIC-ACID

Chemid
BETULINICACID

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	Plant Part	Low PPM	High PPM	StdDev	*Reference
Acrotrema uniflorum	Plant	--	1200.0	-0.48	Jim Duke's personal files.
Acrotrema amottianum	Leaf	--	5300.0	0.31	Jim Duke's personal files.
Acrotrema uniflorum	Plant	--	1200.0	-0.48	Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.
Adansonia digitata	Bark	--	--		Jim Duke's personal files.
Ailanthus grandis	Twig	--	86.0	1.0	Jim Duke's personal files.
Ailanthus grandis	Bark	--	--		Jim Duke's personal files.
Akania luceus	Bark	--	200.0	-0.67	Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.
Akania luceus	Bark	--	200.0	-0.67	Jim Duke's personal files.
Alangium lamarckii	Seed	--	--		Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.
Aleurites montana	Bark	--	60.0	-0.69	Jim Duke's personal files.
Alnus nepalensis	Bark	--	2100.0	-0.42	Jim Duke's personal files.
Alnus maximowiczii	Root	--	260.0	-0.32	Jim Duke's personal files.
Alphitonia whitei	Wood	--	720.0	-0.09	Jim Duke's personal files.
Alphitonia petriei	Wood	--	70.0	-0.45	Jim Duke's personal files.
Alphitonia excelsa	Wood	--	500.0	-0.21	Jim Duke's personal files.
Alphitonia whitei	Leaf	--	4900.0	0.21	Jim Duke's personal files.
Alphitonia macrocarpa	Wood	--	110.0	-0.43	Jim Duke's personal files.
Alphitonia petriei	Leaf	--	6200.0	0.53	Jim Duke's personal files.
Alphitonia excelsa	Leaf	--	8700.0	1.14	Jim Duke's personal files.
Alphitonia whitei	Bark	--	5100.0	-0.01	Jim Duke's personal files.
Alphitonia macrocarpa	Leaf	--	4600.0	0.14	Jim Duke's personal files.
Alphitonia petriei	Bark	--	6900.0	0.23	Jim Duke's personal files.
Alphitonia excelsa	Bark	--	8400.0	0.44	Jim Duke's personal files.
Alstonia scholaris	Stem Bark	--	--		Jim Duke's personal files.
Alyxia buxifolia	Leaf	--	8000.0	0.97	Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.
Alyxia buxifolia	Leaf	--	8000.0	0.97	Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.
Amanoa oblongifolia	Stem Bark	--	87.6	-0.39	Jim Duke's personal files.

baccifera					
Amoora canarana	Root	--	--		Jim Duke's personal files.
Ampelozizyphus amazonicus	Root	--	--		Jim Duke's personal files.
Amsonia grandiflora	Shoot	--	--		Jim Duke's personal files.
Anemone narcissiflora	Plant	--	--		Jim Duke's personal files.
Anisomeles malabarica	Plant	--	100.0	-0.63	Pavannasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.
Anisomeles malabarica	Plant	--	100.0	-0.63	Jim Duke's personal files.
Arbutus menziesii	Plant	--	20000.0	2.05	Pavannasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.
Arbutus unedo	Stem Bark	--	--		Jim Duke's personal files.
Arbutus menziesii	Plant	--	20000.0	2.05	Pavannasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.
Arbutus unedo	Leaf	--	--		Jim Duke's personal files.
Arctostaphylos uva-ursi	Plant	--	--		J.S. Glasby Dict. Pls Containing 2ndary Metabolite. 1991.
Arctostaphylos uva-ursi	Root	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Artocarpus integrifolia	Root Bark	--	--		Jim Duke's personal files.
Artocarpus integrifolia	Heart Wood	--	3000.0	1.41	Jim Duke's personal files.
Artocarpus heterophyllus	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Artocarpus integrifolia	Root	--	--		Jim Duke's personal files.
Aspidixia angulata	Plant	--	--		Jim Duke's personal files.
Avicennia officinalis	Shoot	--	--		Jim Duke's personal files.
Avicennia alba	Stem Bark	--	160.0	-0.36	Jim Duke's personal files.
Avicennia marina	Bark	--	3000.0	-0.29	Pavannasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.
Avicennia officinalis	Stem Bark	--	1450.0	0.19	Jim Duke's personal files.
Avicennia marina	Bark	--	3000.0	-0.29	Jim Duke's personal files.
Avicennia tomentosa	Stem Bark	--	100.0	-0.39	Jim Duke's personal files.
Avicennia officinalis	Leaf	--	500.0	-0.87	Jim Duke's personal files.
Balanops australiana	Bark	--	90.0	-0.69	Jim Duke's personal files.
Balanops australiana	Bark	--	90.0	-0.69	Pavannasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.
Bauhinia vahlii	Leaf	--	--		Jim Duke's personal files.
Betula pendula	Bark	--	2100.0	-0.42	Pavannasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.
Betula lenta	Bark	--	--		Jim Duke's personal files.
Betula sp.	Bark	--	--		Jim Duke's personal files.
Betula maximowicziana	Bark	--	6000.0	0.11	Jim Duke's personal files.
Betula pendula	Bark	--	2100.0	-0.42	Jim Duke's personal files.
Betula platyphylla	Bark	--	--		Jim Duke's personal files.
Betula ermanii	Bark	--	--		Jim Duke's personal files.
Betula utilis	Plant	--	--		Jim Duke's personal files.

papyrifera					
<i>Bischofia javanica</i>	Bark	--	--		Jim Duke's personal files.
<i>Bischofia javanica</i>	Plant	--	--		Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. <i>Phytochem.</i> 13:2002-2006.
<i>Boehmeria excelsa</i>	Bark	--	--		Jim Duke's personal files.
<i>Bonnetia dinizii</i>	Wood	--	48.0	-0.46	Jim Duke's personal files.
<i>Bonnetia dinizii</i>	Bark	--	103.7	-0.69	Jim Duke's personal files.
<i>Bowdichia virgilioides</i>	Stem Bark	--	60.0	-0.4	Jim Duke's personal files.
<i>Broussonetia papyrifera</i>	Stem	--	--		Jim Duke's personal files.
<i>Buxus wallichiana</i>	Shoot	--	--		Jim Duke's personal files.
<i>Buxus microphylla</i>	Shoot	--	--		Jim Duke's personal files.
<i>Byrsonima crassifolia</i>	Leaf	--	3.4	-1.0	Jim Duke's personal files.
<i>Caesalpinia decapetala</i>	Root	--	1.2	-0.34	Jim Duke's personal files.
<i>Callicarpa arborea</i>	Bark	--	--		Jim Duke's personal files.
<i>Callistemon lanceolatus</i>	Leaf	--	--		Jim Duke's personal files.
<i>Calophyllum bracteatum</i>	Wood	--	30.0	-0.47	Jim Duke's personal files.
<i>Calophyllum tomentosum</i>	Bark	--	1000.0	-0.57	Jim Duke's personal files.
<i>Calophyllum apetalum</i>	Bark	--	--		Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. <i>Phytochem.</i> 13:2002-2006.
<i>Calophyllum macrocarpum</i>	Stem Bark	--	20.0	-0.42	Jim Duke's personal files.
<i>Calophyllum bracteatum</i>	Wood	--	30.0	-0.47	Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. <i>Phytochem.</i> 13:2002-2006.
<i>Calophyllum apetalum</i>	Bark	--	--		Jim Duke's personal files.
<i>Calophyllum lankaensis</i>	Bark	--	1000.0	-0.57	Jim Duke's personal files.
<i>Camptotheca acuminata</i>	Fruit	--	--		Jim Duke's personal files.
<i>Caraipa grandifolia</i>	Wood	--	--		Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. <i>Phytochem.</i> 13:2002-2006.
<i>Caraipa densiflora</i>	Wood	--	--		Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. <i>Phytochem.</i> 13:2002-2006.
<i>Caraipa densiflora</i>	Bark	--	103.0	-0.69	Jim Duke's personal files.
<i>Caraipa grandifolia</i>	Wood	--	--		Jim Duke's personal files.
<i>Caraipa densiflora</i>	Wood	--	--		Jim Duke's personal files.
<i>Caraipa grandifolia</i>	Twig	--	--		Jim Duke's personal files.
<i>Careya arborea</i>	Bark	--	--		Jim Duke's personal files.
<i>Carya ovata</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Cassia obtusifolia</i>	Root	--	5000.0	0.05	Jim Duke's personal files.
<i>Cassinia laevis</i>	Shoot	--	847.0	-0.07	Jim Duke's personal files.
<i>Ceanothus velutinus</i>	Root Bark	--	--		Jim Duke's personal files.
<i>Ceanothus americanus</i>	Root Bark	--	200.0	-0.89	Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. <i>Phytochem.</i> 13:2002-2006.
<i>Ceanothus</i>	Root	200.0	7279.0	1.92	Jim Duke's personal files.

<i>Centella asiatica</i>	Plant	--	1100.0	-0.49	Jim Duke's personal files.
<i>Chamaecrista greggii</i>	Root	--	14.8	-0.34	Jim Duke's personal files.
<i>Claoxylon polot</i>	Leaf	--	10.0	-0.99	Jim Duke's personal files.
<i>Clinopodium umbrosum</i>	Plant	--	--		Jim Duke's personal files.
<i>Clusia arboricida</i>	Wood	--	60.8	-0.46	Jim Duke's personal files.
<i>Clusia</i> sp.	Wood	--	--		Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. <i>Phytochem.</i> 13:2002-2006.
<i>Clusia</i> sp.	Wood	--	--		Jim Duke's personal files.
<i>Coccoloba excoriata</i>	Leaf	--	--		Jim Duke's personal files.
<i>Coccoloba excoriata</i>	Bark	--	--		Jim Duke's personal files.
<i>Colubrina granulosa</i>	Heart Wood	--	--		Jim Duke's personal files.
<i>Combretum imberbe</i>	Bark	--	--		Jim Duke's personal files.
<i>Cornus florida</i>	Bark	--	20000.0	2.0	Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. <i>Phytochem.</i> 13:2002-2006.
<i>Cornus florida</i>	Bark	--	20000.0	2.0	Jim Duke's personal files.
<i>Cornus capitata</i>	Stem	--	163.3	0.05	Jim Duke's personal files.
<i>Cotylelobium scabrusculum</i>	Wood	--	170.0	-0.4	Jim Duke's personal files.
<i>Crateva religiosa</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Crotalaria semperflorens</i>	Shoot	--	--		Jim Duke's personal files.
<i>Cuphea epilobifolia</i>	Shoot	--	22.0	-0.28	Jim Duke's personal files.
<i>Cuphea cartagenensis</i>	Shoot	--	42.5	-0.27	Jim Duke's personal files.
<i>Cuphea infundibulum</i>	Shoot	--	22.3	-0.28	Jim Duke's personal files.
<i>Datura innoxia</i>	Tissue Culture	--	--		Jim Duke's personal files.
<i>Dendroseris nerifolia</i>	Shoot	--	--		Jim Duke's personal files.
<i>Dichrostachys glomerata</i>	Bark	--	35.0	-0.7	Jim Duke's personal files.
<i>Dicoma tomentosa</i>	Stem	--	--		Jim Duke's personal files.
<i>Dillenia indica</i>	Fruit	--	--		Jim Duke's personal files.
<i>Dillenia pentagyna</i>	Leaf	--	9800.0	1.41	Jim Duke's personal files.
<i>Dillenia anhamanica</i>	Leaf	--	5000.0	0.23	Jim Duke's personal files.
<i>Dillenia retusa</i>	Wood	--	1300.0	0.24	*
<i>Dillenia retusa</i>	Fruit	--	16000.0	2.03	Jim Duke's personal files.
<i>Dillenia indica</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Dillenia indica</i>	Leaf	--	6000.0	0.48	Jim Duke's personal files.
<i>Dillenia indica</i>	Bark	--	13000.0	1.06	*
<i>Dillenia bracteata</i>	Leaf	--	5800.0	0.43	Jim Duke's personal files.
<i>Dillenia retusa</i>	Leaf	--	8500.0	1.1	Jim Duke's personal files.
<i>Dillenia retusa</i>	Bark	--	8000.0	0.38	*
<i>Dillenia indica</i>	Pericarp	--	1900.0	-0.6	Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. <i>Phytochem.</i> 13:2002-2006.
<i>Dillenia indica</i>	Heart Wood	--	--		Jim Duke's personal files.
<i>Dillenia indica</i>	Bark	--	7500.0	0.31	Jim Duke's personal files.

<i>Dillenia scabrella</i>	Leaf	--	5750.0	0.42	Jim Duke's personal files.
<i>Dillenia aurea</i>	Leaf	--	7200.0	0.78	Jim Duke's personal files.
<i>Dillenia retusa</i>	Fruit	--	1600.0	-0.48	Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. <i>Phytochem.</i> 13:2002-2006.
<i>Dillenia indica</i>	Wood	--	2500.0	0.92	*
<i>Dillenia indica</i>	Pericarp	--	19000.0	1.41	Jim Duke's personal files.
<i>Diospyros lotus</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros melanoxyton</i>	Leaf	--	--		Jim Duke's personal files.
<i>Diospyros kamerunensis</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros hirsuta</i>	Bark	--	100.0	-0.69	*
<i>Diospyros natalensis</i>	Leaf	--	24.0	-0.99	Jim Duke's personal files.
<i>Diospyros hoyleana</i>	Wood	--	280.0	-0.33	Jim Duke's personal files.
<i>Diospyros discolor</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Diospyros walkeri</i>	Wood	--	1000.0	0.07	Jim Duke's personal files.
<i>Diospyros gracilescens</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Diospyros thwaitesii</i>	Wood	--	480.0	-0.22	Jim Duke's personal files.
<i>Diospyros fragrans</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros verrucosa</i>	Stem Bark	--	2000.0	0.43	Jim Duke's personal files.
<i>Diospyros zenkeri</i>	Bark	--	646.7	-0.61	Jim Duke's personal files.
<i>Diospyros buxifolia</i>	Plant	--	--		*
<i>Diospyros cinnabarina</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros sumatrana</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros ebenum</i>	Heart Wood	--	--		Jim Duke's personal files.
<i>Diospyros singaporensis</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros crassiflora</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros celebica</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros siamensis</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Diospyros tomentosa</i>	Plant	--	--		*
<i>Diospyros moonii</i>	Wood	--	80.0	-0.45	Jim Duke's personal files.
<i>Diospyros argentea</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Diospyros montana</i>	Leaf	--	--		Jim Duke's personal files.
<i>Diospyros siamang</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros morrisiana</i>	Root	--	200.0	-0.32	Jim Duke's personal files.
<i>Diospyros melanoxyton</i>	Wood	100.0	1000.0	0.07	*
<i>Diospyros monbutensis</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros</i>	Heart	--	100.0	-0.77	Jim Duke's personal files.

<i>Diospyros maritima</i>	Root	--	--		Jim Duke's personal files.
<i>Diospyros maingayi</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros kaki</i>	Root	--	--		Jim Duke's personal files.
<i>Diospyros japonica</i>	Root	--	--		Jim Duke's personal files.
<i>Diospyros mafiensis</i>	Leaf	--	200.0	-0.95	Jim Duke's personal files.
<i>Diospyros lotus</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros ferrea</i>	Root	--	--		Jim Duke's personal files.
<i>Diospyros lotus</i>	Root	--	20.0	-0.34	Jim Duke's personal files.
<i>Diospyros consolatae</i>	Stem Bark	--	160.0	-0.36	Jim Duke's personal files.
<i>Diospyros longiflora</i>	Bark	--	393.0	-0.65	Jim Duke's personal files.
<i>Diospyros hirsuta</i>	Wood	130.0	400.0	-0.27	*
<i>Diospyros ismailii</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros derra</i>	Plant	--	--		*
<i>Diospyros hoyleana</i>	Bark	--	130.0	-0.68	Jim Duke's personal files.
<i>Diospyros discolor</i>	Fruit	--	500.0	-0.67	*
<i>Diospyros gracilescens</i>	Bark	--	60.0	-0.69	Jim Duke's personal files.
<i>Diospyros consolatae</i>	Root Bark	--	800.0	-0.65	Jim Duke's personal files.
<i>Diospyros verrucosa</i>	Root Bark	--	3800.0	0.54	Jim Duke's personal files.
<i>Diospyros wallichii</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros sylvatica</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros eriantha</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros spinescens</i>	Wood	--	210.0	-0.37	Jim Duke's personal files.
<i>Diospyros dendo</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros cinnabarina</i>	Bark	--	80.0	-0.69	Jim Duke's personal files.
<i>Diospyros singaporensis</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros celebica</i>	Heart Wood	--	268.6	-0.64	Jim Duke's personal files.
<i>Diospyros montana</i>	Wood	--	945.0	0.04	Jim Duke's personal files.
<i>Diospyros abyssinica</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros siamensis</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros perigrina</i>	Seed	--	--		*
<i>Diospyros sanza-minika</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros morrisiana</i>	Plant	--	--		*
<i>Diospyros montana</i>	Fruit	--	--		Jim Duke's personal files.
<i>Diospyros melanoxyton</i>	Stem Bark	--	100.0	-0.39	Jim Duke's personal files.

<i>Diospyros mannii</i>	Stem Bark	76.2	77.6	-0.4	Jim Duke's personal files.
<i>Diospyros melanoxylo</i>	Fruit	--	--		Jim Duke's personal files.
<i>Diospyros iturensis</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros greenwayi</i>	Leaf	--	60.0	-0.98	Jim Duke's personal files.
<i>Diospyros lotus</i>	Shoot	--	--		Jim Duke's personal files.
<i>Diospyros quaesita</i>	Bark	--	2100.0	-0.42	Jim Duke's personal files.
<i>Diospyros maingayi</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros kaki</i>	Leaf	--	--		Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.
<i>Diospyros lotus</i>	Plant	--	--		*
<i>Diospyros leucomelas</i>	Leaf	--	--		Jim Duke's personal files.
<i>Diospyros hirsuta</i>	Fruit	20.0	200.0	-0.73	*
<i>Diospyros ismailii</i>	Fruit	--	--		Jim Duke's personal files.
<i>Diospyros discolor</i>	Wood	--	800.0	-0.04	Jim Duke's personal files.
<i>Diospyros gracilescens</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros gabunensis</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros zenkeri</i>	Wood	--	60.0	-0.46	Jim Duke's personal files.
<i>Diospyros buxifolia</i>	Shoot	--	--		Jim Duke's personal files.
<i>Diospyros consolatae</i>	Leaf	--	2000.0	-0.5	Jim Duke's personal files.
<i>Diospyros verrucosa</i>	Leaf	--	8150.0	1.01	Jim Duke's personal files.
<i>Diospyros wallichii</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros sumatrana</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros ebum</i>	Stem Bark	--	80.0	-0.39	Jim Duke's personal files.
<i>Diospyros spinescens</i>	Bark	--	4320.0	-0.12	Jim Duke's personal files.
<i>Diospyros dendo</i>	Bark	--	30.0	-0.7	Jim Duke's personal files.
<i>Diospyros chevalieri</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros siderophylla</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros canaliculata</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros montana</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Diospyros siamang</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros perigrina</i>	Bark	25000.0	30000.0	3.36	*
<i>Diospyros tomentosa</i>	Shoot	--	--		Jim Duke's personal files.
<i>Diospyros quaesita</i>	Wood	--	2200.0	0.75	Jim Duke's personal files.
<i>Diospyros morrisiana</i>	Heart Wood	--	--		Jim Duke's personal files.

montana					
<i>Diospyros melanoxylon</i>	Plant	--	50.0	-0.63	Jim Duke's personal files.
<i>Diospyros mespiliformis</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros malanonilau</i>	Heart Wood	--	--		Jim Duke's personal files.
<i>Diospyros melanoxylon</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros iturensis</i>	Bark	--	660.0	-0.61	Jim Duke's personal files.
<i>Diospyros ferrea</i>	Shoot	--	--		Jim Duke's personal files.
<i>Diospyros lotus</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Diospyros montana</i>	Seed	--	--		Jim Duke's personal files.
<i>Diospyros longiflora</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros kaki</i>	Calyx	--	--		*
<i>Dipterocarpus insignis</i>	Wood	--	--		Jim Duke's personal files.
<i>Dipterocarpus glandulosus</i>	Wood	--	--		Jim Duke's personal files.
<i>Dipterocarpus hispidus</i>	Wood	--	--		Jim Duke's personal files.
<i>Dipterocarpus zeylanicus</i>	Wood	--	--		Jim Duke's personal files.
<i>Dipterocarpus hispidus</i>	Bark	--	140.0	-0.68	*
<i>Discaria longispina</i>	Plant	--	--		*
<i>Echinops echinatus</i>	Twig	--	--		Jim Duke's personal files.
<i>Echinops echinatus</i>	Flower	--	--		Jim Duke's personal files.
<i>Echinops niveus</i>	Plant	--	--		Jim Duke's personal files.
<i>Ehretia laevis</i>	Bark	--	150.0	-0.68	Jim Duke's personal files.
<i>Eleutherococcus senticosus</i>	Rhizome	--	--		*
<i>Enterolobium cyclocarpum</i>	Bark	--	60.0	-0.69	Jim Duke's personal files.
<i>Epilobium rosmarinifolium</i>	Root	--	--		Jim Duke's personal files.
<i>Erythrospermum zeylanicum</i>	Bark	--	110.0	-0.69	Jim Duke's personal files.
<i>Eucalyptus citriodora</i>	Leaf	--	--		*
<i>Eucalyptus citriodora</i>	Root	--	167.0	-0.33	*
<i>Eucalyptus citriodora</i>	Plant	--	--		J.S. Glasby Dict. Pls Containing 2ndary Metabolite. 1991.
<i>Euclea natalensis</i>	Leaf	--	200.0	-0.95	Jim Duke's personal files.
<i>Eucommia ulmoides</i>	Bark	--	--		Jim Duke's personal files.
<i>Eugenia fruticosa</i>	Stem Bark	--	--		*
<i>Eugenia wallichii</i>	Stem Bark	--	--		*
<i>Eugenia jambolana</i>	Bark	--	1700.0	-0.47	Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.
<i>Euptelea polyandra</i>	Bark	--	240.0	-0.67	Jim Duke's personal files.
<i>Eurya acuminata</i>	Bark	--	18000.0	1.73	*

<i>Fagonia indica</i>	Plant	--	--		Jim Duke's personal files.
<i>Fagus taurica</i>	Bark	--	--		Jim Duke's personal files.
<i>Ficus thunbergii</i>	Stem	--	31.4	-0.33	Jim Duke's personal files.
<i>Formosia benthamiana</i>	Stem	--	--		Jim Duke's personal files.
<i>Forsythia suspensa</i>	Fruit	--	--		Jim Duke's personal files.
<i>Forsythia viridissima</i>	Fruit	--	--		Jim Duke's personal files.
<i>Givotia rottleriformis</i>	Bark	--	--		Jim Duke's personal files.
<i>Glycyrrhiza uralensis</i>	Root	--	--		*
<i>Glycyrrhiza squamulosa</i>	Root	--	17.1	-0.34	Jim Duke's personal files.
<i>Glycyrrhiza glabra</i>	Tissue Culture	--	--		*
<i>Gochnatia blanchetiana</i>	Shoot	--	166.0	-0.24	Jim Duke's personal files.
<i>Gratifolia officianalis</i>	Plant	--	2500.0	-0.3	*
<i>Gypsophila struthium</i>	Root	--	9.6	-0.34	Jim Duke's personal files.
<i>Herpestis monniera</i>	Plant	--	1100.0	-0.49	Jim Duke's personal files.
<i>Hibiscus mutabilis</i>	Flower	--	--		Jim Duke's personal files.
<i>Hoffmannia strigillosa</i>	Shoot	--	12.5	-0.28	Jim Duke's personal files.
<i>Hopea jucunda</i>	Wood	--	160.0	-0.4	Jim Duke's personal files.
<i>Hopea brevipedicularis</i>	Wood	--	--		Jim Duke's personal files.
<i>Hopea cordifolia</i>	Wood	--	150.0	-0.41	Jim Duke's personal files.
<i>Hopea cordifolia</i>	Bark	--	210.0	-0.67	Jim Duke's personal files.
<i>Hydnocarpus venenata</i>	Wood	--	--		Jim Duke's personal files.
<i>Hydnocarpus wightiana</i>	Seed	--	--		Jim Duke's personal files.
<i>Hydnocarpus venenata</i>	Bark	--	60.0	-0.69	*
<i>Hydnocarpus wightiana</i>	Stem Bark	--	66.6	-0.4	Jim Duke's personal files.
<i>Hydnocarpus wightiana</i>	Leaf	--	48.8	-0.98	Jim Duke's personal files.
<i>Hypericum elatum</i>	Root Bark	--	--		Jim Duke's personal files.
<i>Hypericum androsaemum</i>	Root Bark	--	--		Jim Duke's personal files.
<i>Hypericum patulum</i>	Shoot	--	--		Jim Duke's personal files.
<i>Hyptis albida</i>	Shoot	--	6.0	-0.28	Jim Duke's personal files.
<i>Hyptis suaveolens</i>	Root	--	--		Jim Duke's personal files.
<i>Hyptis emoryi</i>	Shoot	--	--		Jim Duke's personal files.
<i>Inga punctata</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Iris missouriensis</i>	Root	--	--		Jim Duke's personal files.
<i>Jacaranda caucana</i>	Stem Bark	--	110.0	-0.38	Jim Duke's personal files.
<i>Jasminum sambac</i>	Leaf	--	100.0	-0.97	Jim Duke's personal files.

	Bark				
<i>Jussiaea suffruticosa</i>	Plant	--	--		Jim Duke's personal files.
<i>Kayea stylosa</i>	Bark	--	100.0	-0.69	*
<i>Lantana camara</i>	Shoot	--	--		Jim Duke's personal files.
<i>Lavandula spica</i>	Shoot	--	133.3	-0.25	Jim Duke's personal files.
<i>Lawsonia inermis</i>	Plant	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
<i>Lawsonia inermis</i>	Bark	--	--		*
<i>Lemaireocereus quevedonis</i>	Plant	--	--		*
<i>Lemaireocereus hystrix</i>	Plant	--	400.0	-0.59	*
<i>Lemaireocereus stellatus</i>	Plant	--	3800.0	-0.13	*
<i>Lemaireocereus griseus</i>	Plant	--	20000.0	2.05	*
<i>Lemaireocereus quevedonis</i>	Stem	--	--		Jim Duke's personal files.
<i>Lepechinia chamaedryoides</i>	Shoot	--	--		Jim Duke's personal files.
<i>Lepechinia caulescens</i>	Shoot	--	4.0	-0.28	Jim Duke's personal files.
<i>Lepechinia glomerata</i>	Shoot	--	--		Jim Duke's personal files.
<i>Leptospermum scoparium</i>	Bark	--	5000.0	-0.02	*
<i>Leptospermum ericoides</i>	Bark	--	--		*
<i>Lespedeza davidii</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Limnophila rugosa</i>	Plant	--	--		Jim Duke's personal files.
<i>Litocarpus attenuata</i>	Stem	--	--		Jim Duke's personal files.
<i>Litocarpus polystachya</i>	Stem	--	1.6	-0.42	Jim Duke's personal files.
<i>Ludwigia parviflora</i>	Plant	--	--		Jim Duke's personal files.
<i>Luisia indivisa</i>	Plant	--	--		Jim Duke's personal files.
<i>Lycopus lucidus</i>	Shoot	--	--		Jim Duke's personal files.
<i>Machaerocereus gummosus</i>	Plant	--	4000.0	-0.1	*
<i>Madhuca nerifolia</i>	Bark	300.0	560.0	-0.62	*
<i>Madhuca microphylla</i>	Bark	--	930.0	-0.57	Jim Duke's personal files.
<i>Maytenus aquifolium</i>	Plant	--	--		Jim Duke's personal files.
<i>Maytenus canariensis</i>	Shoot	--	--		Jim Duke's personal files.
<i>Melaleuca leucadendron</i>	Fruit	--	420.0	-0.69	Jim Duke's personal files.
<i>Melaleuca leucadendra</i>	Bark	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Melanoxylon brauna</i>	Bark	--	250.0	-0.67	Jim Duke's personal files.
<i>Melanoxylon brauna</i>	Wood	--	--		*
<i>Menyanthes trifoliata</i>	Root	1000.0	8000.0	0.29	*
<i>Menyanthes trifoliata</i>	Rhizome	--	1000.0	1.0	*

	Bark				
Mesua myrtifolia	Bark	--	100.0	-0.69	Jim Duke's personal files.
Metrosideros excelsa	Flower	--	1000.0	-0.45	*
Mimusops littoralis	Bark	--	--		Jim Duke's personal files.
Mitrephora heyneana	Bark	--	--		Jim Duke's personal files.
Morus serrata	Bark	--	--		Jim Duke's personal files.
Morus alba	Root Bark	--	150.0	-0.91	Jim Duke's personal files.
Morus alba	Bark	--	1800.0	-0.46	Jim Duke's personal files.
Nerium oleander	Leaf	--	--		Jim Duke's personal files.
Newcastelia viscida	Plant	--	--		Jim Duke's personal files.
Nuytsia floribunda	Shoot	--	17000.0	3.87	*
Nymphoides peltatum	Plant	--	--		Jim Duke's personal files.
Ocimum americanum	Plant	--	--		Jim Duke's personal files.
Ocimum canum	Shoot	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
Origanum compactum	Shoot	--	70.0	-0.26	Jim Duke's personal files.
Paeonia japonica	Tissue Culture	--	5000.0	-1.0	Jim Duke's personal files.
Palaquium grande	Bark	--	7.0	-0.7	Jim Duke's personal files.
Pedicularis longiflora	Plant	--	--		Jim Duke's personal files.
Phyllanthus discoideus	Root	--	--		Jim Duke's personal files.
Phyllanthus reticulatus	Stem	--	3.3	-0.42	Jim Duke's personal files.
Picramnia sellowii	Plant	--	--		Jim Duke's personal files.
Platanus orientalis	Pericarp	--	--		Jim Duke's personal files.
Platanus occidentalis	Bark	--	17500.0	1.67	Jim Duke's personal files.
Platanus orientalis	Exocarp	--	--		Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.
Platanus accrifolia	Bark	--	18000.0	1.73	Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.
Platanus vulgaris	Heart Wood	--	--		*
Platanus orientalis	Bark	--	17500.0	1.67	Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.
Platanus acerifolia	Bark	--	18000.0	1.73	Jim Duke's personal files.
Plectranthus urticifolius	Plant	--	--		Jim Duke's personal files.
Plumeria obtusa	Leaf	--	3.4	-1.0	Jim Duke's personal files.
Polygonum plebeium	Flower	--	75.0	-0.94	Jim Duke's personal files.
Pongamia pinnata	Stem Bark	--	45.0	-0.41	Jim Duke's personal files.
Pouteria torta	Twig	--	15.0	-1.0	Jim Duke's personal files.
Prunella vulgaris	Shoot	--	2.88	-0.28	*
Prunella vulgaris	Root	--	738.0	-0.28	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.

tetragonolobus					
Psychotria adenophylla	Leaf	--	--		Jim Duke's personal files.
Punica granatum	Leaf	--	2000.0	-0.5	*
Punica granatum	Bark	--	1500.0	-0.5	*
Putoria calabrica	Shoot	--	--		Jim Duke's personal files.
Pygeum acuminatum	Stem Bark	--	--		Jim Duke's personal files.
Quercus suber	Cork	--	--		*
Quercus bambusaefolia	Stem	--	3.7	-0.42	Jim Duke's personal files.
Quercus myrsinaefolia	Stem	--	1.1	-0.42	Jim Duke's personal files.
Quercus championi	Stem	--	3.3	-0.42	Jim Duke's personal files.
Rhododendron falconeri	Bark	--	--		Jim Duke's personal files.
Rhododendron arboreum	Bark	--	--		*
Rhododendron grande	Bark	--	--		*
Rhodomyrtus tomentosa	Leaf	--	4.0	-1.0	Jim Duke's personal files.
Rhodomyrtus tomentosa	Stem	--	2.0	-0.42	Jim Duke's personal files.
Rosa woodsii	Leaf	--	3.0	-1.0	Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. J. Nat. Prod., 61 (9): 1090-1095.
Rosa davurica	Pericarp	--	70.0	-0.81	Jim Duke's personal files.
Rosmarinus officinalis	Leaf	--	--		*
Rotala floribunda	Plant	--	--		Jim Duke's personal files.
Salvia longistyla	Shoot	--	28.2	-0.27	Jim Duke's personal files.
Salvia triloba	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Salvia nicolsoniana	Shoot	--	58.7	-0.27	Jim Duke's personal files.
Salvia farinacea	Shoot	--	--		Jim Duke's personal files.
Salvia mexicana	Plant	--	--		Jim Duke's personal files.
Sambucus nigra	Bark	--	--		*
Sambucus racemosa	Bark	--	--		Jim Duke's personal files.
Sanguisorba officinalis	Stem	--	1100.0	2.8	Jim Duke's personal files.
Sarracenia flava	Leaf	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Sarracenia flava	Shoot	--	--		*
Sarracenia flava	Flower	--	--		*
Sarracenia flava	Root	--	--		*
Schefflera octophylla	Leaf	--	--		Jim Duke's personal files.
Schefflera species	Leaf	--	--		Jim Duke's personal files.
Schefflera venulosa	Leaf	--	200.0	-0.95	Jim Duke's personal files.
Schleichera oleosa	Bark	--	--		Jim Duke's personal files.
Schrebera swietenoides	Fruit	--	--		Jim Duke's personal files.
Scirpus tuberosus	Root	--	--		Jim Duke's personal files.
Scirpus fluviatilis	Rhizome	--	27.0	-1.0	Jim Duke's personal files.

Scoparia dulcis	Root	--	--		Jim Duke's personal files.
Senna lindheimeriana	Root	--	50.4	-0.34	Jim Duke's personal files.
Shorea zeylanica	Wood	--	--		Jim Duke's personal files.
Shorea dyerii	Wood	300.0	430.0	-0.25	Jim Duke's personal files.
Shorea ovalifolia	Wood	--	--		Jim Duke's personal files.
Shorea affinis	Wood	100.0	720.0	-0.09	Jim Duke's personal files.
Shorea trapezifolia	Wood	--	--		Jim Duke's personal files.
Shorea oblongifolia	Wood	--	--		Jim Duke's personal files.
Shorea congestiflora	Wood	--	--		Jim Duke's personal files.
Shorea magistophylla	Bark	--	20.0	-0.7	Jim Duke's personal files.
Shorea stipularis	Bark	--	710.0	-0.6	Jim Duke's personal files.
Solanum aviculare	Tissue Culture	--	30000.0	1.0	Jim Duke's personal files.
Solanum laciniatum	Leaf	--	--		Jim Duke's personal files.
Sorocea bonplandii	Root	--	13.1	-0.34	Jim Duke's personal files.
Spondianthus preussii	Stem Bark	--	12000.0	4.73	Jim Duke's personal files.
Stemonoporus reticulatus	Wood	--	--		Jim Duke's personal files.
Stemonoporus cordifolius	Wood	--	--		Jim Duke's personal files.
Stemonoporus petiolaris	Wood	--	--		Jim Duke's personal files.
Stemonoporus canaliculatus	Wood	--	--		Jim Duke's personal files.
Stemonoporus oblongifolius	Wood	--	--		Jim Duke's personal files.
Stemonoporus affinis	Wood	--	--		Jim Duke's personal files.
Symplocos racemosa	Plant	--	--		Jim Duke's personal files.
Syncarpia glomulifera	Wood	--	--		Jim Duke's personal files.
Syncarpia glomulifera	Bark	--	12000.0	0.92	Jim Duke's personal files.
Syncarpia laurifolia	Bark	--	12000.0	0.92	*
Syzygium claviflorum	Leaf	--	--		Jim Duke's personal files.
Syzygium claviflorum	Leaf	--	205.0	-0.95	*
Syzygium cumini	Leaf	--	--		Jim Duke's personal files.
Syzygium cumini	Bark	--	1700.0	-0.47	Jim Duke's personal files.
Syzygium cumini	Stem Bark	--	1100.0	0.04	Jim Duke's personal files.
Tacca aspera	Tuber	--	--		Jim Duke's personal files.
Talguenea quinquenervis	Plant	--	--		Jim Duke's personal files.
Tectona grandis	Wood	--	10000.0	5.14	*
Tectona grandis	Stem Bark	--	--		Jim Duke's personal files.
Tectona grandis	Root	--	290.0	-0.32	Jim Duke's personal files.
Tephrosia purpurea	Plant	--	30.0	-0.64	Jim Duke's personal files.

<i>Terminalia catappa</i>	Bark	--	--		Diyabalanaga, T. K. K., Jayasinghe, U. L. B., Simmonds, P. M., Wannigama, G. P., Wickramasinghe, A. 1997. Chemical Investigation of <i>Terminalia catappa</i> . <i>Acgc. Chem. Res. Commun.</i> 6: 26-28.
<i>Terminalia alata</i>	Heart Wood	--	--		Jim Duke's personal files.
<i>Terminalia gymnanthera</i>	Shoot	--	--		Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. <i>J. Nat. Prod.</i> , 61 (9): 1090-1095.
<i>Terminalia merrilliana</i>	Bark	--	20000.0	2.0	*
<i>Tetracera indica</i>	Leaf	--	6000.0	0.48	Jim Duke's personal files.
<i>Tetracera scandens</i>	Leaf	--	13500.0	2.33	Jim Duke's personal files.
<i>Tetracera akara</i>	Leaf	--	10500.0	1.59	Jim Duke's personal files.
<i>Tetracera sarmentosa</i>	Leaf	--	12300.0	2.03	Jim Duke's personal files.
<i>Tovomitia excelsa</i>	Wood	--	83.9	-0.44	Jim Duke's personal files.
<i>Tovomitia pyrifolia</i>	Wood	--	--		Jim Duke's personal files.
<i>Tovomitia brasiliensis</i>	Wood	--	--		Jim Duke's personal files.
<i>Tovomitia mangle</i>	Root	--	--		Jim Duke's personal files.
<i>Triadenum japonicum</i>	Plant	--	--		Jim Duke's personal files.
<i>Vatica affinis</i>	Wood	300.0	740.0	-0.07	Jim Duke's personal files.
<i>Vauquelinia corymbosa</i>	Shoot	--	41.0	-0.27	Jim Duke's personal files.
<i>Vellozia declinans</i>	Stem	--	--		Jim Duke's personal files.
<i>Vellozia declinans</i>	Shoot	--	--		Jim Duke's personal files.
<i>Viscum album</i>	Shoot	--	5.4	-0.28	Jim Duke's personal files.
<i>Viscum album</i>	Leaf	--	--		Jim Duke's personal files.
<i>Viscum articulatum</i>	Plant	--	--		Jim Duke's personal files.
<i>Vismia micrantha</i>	Wood	--	280.0	-0.33	Jim Duke's personal files.
<i>Vismia cayennensis</i>	Wood	--	--		Jim Duke's personal files.
<i>Vitis vinifera</i>	Root	--	--		*
<i>Wisteria floribunda</i>	Wood	--	--		Jim Duke's personal files.
<i>Wisteria floribunda</i>	Bark	--	--		Jim Duke's personal files.
<i>Woodfordia floribunda</i>	Leaf	--	24.4	-0.99	Jim Duke's personal files.
<i>Wormia triquetra</i>	Fruit	--	10000.0	0.99	*
<i>Wormia triquetra</i>	Flower	--	4500.0	1.39	*
<i>Wormia burbridgei</i>	Bark	--	24000.0	2.55	*
<i>Wormia triquetra</i>	Bark	--	16000.0	1.46	*
<i>Wormia triquetra</i>	Wood	--	1500.0	0.35	*
<i>Ziziphus joazeiro</i>	Bark	--	--		Jim Duke's personal files.
<i>Ziziphus joazeiro</i>	Stem Bark	--	1200.0	0.09	Jim Duke's personal files.
<i>Zizyphus oenoplia</i>	Bark	--	--		Jim Duke's personal files.
<i>Zizyphus jujuba</i>	Seed	--	--		Jim Duke's personal files.
<i>Zizyphus spina-</i>	Plant	--	--		Jim Duke's personal files.

Zizyphus jujuba	Fruit	48.0	1800.0	-0.45	Jim Duke's personal files.
Zizyphus mauritiana	Bark	--	60.0	-0.69	Jim Duke's personal files.
Zizyphus xylopyra	Stem Bark	--	869.0	-0.06	Jim Duke's personal files.
Zizyphus rugosa	Stem Bark	--	644.0	-0.15	Jim Duke's personal files.
Zizyphus oenoplia	Root	--	--		Jim Duke's personal files.
Zizyphus jujuba	Stem Bark	15.6	768.0	-0.1	Jim Duke's personal files.
Zizyphus nummularia	Stem Bark	--	116.6	-0.38	Jim Duke's personal files.
Zizyphus spinachristi	Leaf	--	60.0	-0.98	Jim Duke's personal files.
Zizyphus jujuba	Bark	--	10000.0	0.65	Jim Duke's personal files.
Zizyphus vulgaris	Seed	--	--		Pavannasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.
Zizyphus trinervia	Stem Bark	--	780.0	-0.09	Jim Duke's personal files.
Zizyphus rugosa	Plant	--	--		Jim Duke's personal files.
Zizyphus oenoplia	Root Bark	--	2446.8	0.0	Jim Duke's personal files.
Zizyphus jujuba	Wood	--	--		Jim Duke's personal files.
Zizyphus jujuba	Plant	--	--		*
Zizyphus oenoplia	Stem Bark	--	820.0	-0.08	Jim Duke's personal files.
Zizyphus trinervia	Bark	--	20.0	-0.7	Jim Duke's personal files.
Zizyphus rugosa	Bark	--	--		Jim Duke's personal files.